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(54) Title: A METHOD OF CONTROLLING THE TEMPERATURE OF A SPECIMEN IN OR ON A SOLID SUPPORT MEMBER

(57) Abstract: The invention relates to a method of controlling the temperature of a specimen by using induction heating. The specimen is either fixed to a carrier or is in liquid form in contact with a carrier with fixed capture probes. The carrier is removably placed in, on, or under a support member comprising a conducting material, and the method comprising a step of subjecting the solid support to an oscillating magnetic field. The invention also relates to the solid support member in combination with a carrier and the use of it. The specimen is preferably a biological specimen and the carrier and support member are preferably a microscope slide and a cartridge, respectively. In a second aspect, the invention relates to a method of controlling the temperature of a specimen or a capture probe for a specimen fixed onto micro beads, said beads being sufficiently small to be flowable in a liquid fluid, preferably water or a specimen in liquid form. The beads comprise electrically conducting material and are placed in a liquid, and the method includes the step of carrying the micro beads through an oscillating magnetic field for generating heat.